

AMENDMENT TO THE CLAIMS

1. (Currently Amended)      An apparatus for checking documents of value with luminescent feature substances, comprising

an illuminating apparatus for illuminating the document of value along a plurality of measuring tracks extending across the document of value and exciting the luminescent feature substances such that the luminescent feature substances emit luminescence radiation;

a sensor device for measuring the luminescence radiation emitted by the illuminated document of value;

an evaluation unit for carrying out the checking on the basis of the measured values of the sensor device;

wherein the illumination apparatus, the sensor device, and the evaluation unit are arranged to allow ~~capturing~~ determining of a plurality of measured values of ~~luminescent luminescence~~ radiation along each one of ~~a~~ the plurality of measuring tracks ~~extending across the document of value;~~ and

wherein the evaluation unit is arranged to integrate the measured values for each of the tracks and to carry out the evaluation checking on the basis of the results of the integrated measured values for each of the tracks ~~an integrated luminescence measuring, which is obtained by integrating the measured values of the respective measuring track.~~

2. (Previously Presented)      The apparatus according to claim 1, wherein the evaluation unit is arranged to obtain the integration of the measured values by an addition of a plurality of discrete measured values of either or both of the luminescence radiation and a time-integrated measuring of the luminescence radiation.

3. (Previously Presented)      The apparatus according to claim 1, wherein the evaluation unit is arranged to carry out the evaluation both on the basis of the integrated luminescence measuring, and not-integrated measured values of the luminescence radiation corresponding to different spatial areas of the respective measuring track.

4. (Previously Presented)      The apparatus according to claim 1, wherein the evaluation unit is

arranged to carry out an in particular broadband evaluation of the spectral distribution of the integrated luminescence measuring.

5. (Previously Presented) The apparatus according to claim 1, wherein the evaluation unit is arranged to carry out the integration both with respect to the spatial distribution and/or the spectral distribution of the luminescence radiation.

6. (Previously Presented) The apparatus according to claim 1, wherein the apparatus is arranged to check documents of value having different luminescent feature substances which are contained individually or in combination in the document of value, and the evaluation unit is adapted as to be able to determine either or both of whether one of the different feature substances is contained in the checked document of value and which of the different feature substances is contained in the checked document of value.

7. (Previously Presented) The apparatus according to claim 1, further comprising a transport apparatus for transporting the documents of value past the illuminating apparatus and the sensor device in a transport direction parallel to the tracks, wherein the sensor device is arranged to carry out the integrated luminescence measuring along the measuring tracks.

8. (Previously Presented) The apparatus according to claim 1, wherein the sensor device is adapted to measure along a plurality of parallel tracks overlapping each other.

9. (Previously Presented) The apparatus according to claim 1, wherein the tracks have a width in a direction perpendicular to the tracks and the illumination apparatus, the sensor device and the evaluation unit arranged such that the sum of the widths of all tracks is larger than the dimension of the document of value in the direction perpendicular to the tracks.

10. (Currently Amended) The apparatus according to claim 1, wherein the illuminating apparatus produces a continuous illumination ~~with a plurality of pulses per track measuring.~~

11. (Previously Presented) The apparatus according to claim 1, wherein the sensor device carries out a spatially resolved measuring in a direction along the track direction.

12. (Previously Presented) The apparatus according to claim 1, wherein the sensor device carries out a spectrally integrated measuring in a direction along the track direction.

13. (Previously Presented) The apparatus according to claim 1, wherein the sensor device has a plurality of sensors, each sensor being adapted to measure one individual track corresponding to one area of a coding.

14. (Previously Presented) The apparatus according to claim 1, wherein the sensor device comprises a plurality of sensors which have different spectral behaviors and the illuminating apparatus comprises a plurality of light sources which have different spectral behaviors.

15. (Previously Presented) The apparatus according to claim 1, wherein the evaluation unit is arranged to carry out a time-resolved evaluation of the integrated luminescence measuring.

16. (Currently Amended) The apparatus according to claim 1, wherein the evaluation unit is arranged to carry out the evaluation of the integrated luminescence measuring in a wavelength range of more than ~~about~~ 800 nanometers.

17. (Currently Amended) The apparatus according to claim 1, comprising ~~either or both~~ a nominal value sensor and/or a state sensor, the evaluation unit arranged to carry out the evaluation of the integrated luminescence measuring taking into account the nominal value of the checked document of value determined with the help of the nominal value sensor or the state of the checked document of value determined with the help of the state sensor.

18. (Previously Presented) The apparatus according to claim 1, wherein the apparatus comprises one or more devices selected from the group: device for counting; device for sorting; device for depositing; device for paying out bank notes and a handheld checking device.

19. (Currently Amended) A method for checking authenticity and/or nominal value of documents of value with luminescent feature substances, ~~wherein the document of value to be checked is illuminated along at least one track extending over the document of value and the checking is carried out on the basis of measuring the luminescence radiation emitted by the illuminated document of value,~~ comprising the steps:

illuminating the document of value to be checked along a plurality of measuring tracks extending across the document of value thereby exciting the luminescent feature substance to emit luminescence radiation;

measuring the luminescent radiation emitted by the luminescent feature substance of the illuminated document of value along the plurality of tracks;

determining capturing a plurality of measured values of the luminescence radiation emitted by the luminescent feature substance of the illuminated document of value along each of one or a the plurality of measuring tracks; extending across the document of value and carrying out the evaluation on the basis of an integrated luminescence measuring, which is obtained by integrating the measured values of the respective measuring track

integrating the measured values for each of the plurality of tracks; and

checking the authenticity and/or the nominal value of the document of value on the basis of the integrated measured values for each of the plurality of tracks.

20. (Currently Amended) The method according to claim 19, wherein the luminescent feature substances are checked and are ~~either or both~~ incorporated in and/or applied onto the document of value in random distribution.

21. (Previously Presented) The apparatus according to claim 1, wherein the sensor device is adapted to measure along a plurality of parallel tracks spaced apart from each other.

22. (Previously Presented) The apparatus according to claim 1, wherein the tracks have a width in a direction perpendicular to the tracks and the illumination apparatus, the sensor device and the evaluation unit arranged such that the sum of the widths of all tracks is smaller than the dimension of the document of value in the direction.

23. (Currently Amended) The apparatus according to claim 1, wherein the evaluation unit is arranged to carry out the evaluation of the integrated luminescence measuring in a wavelength range of more than ~~about~~ 1000 nanometers.